

## RESUME OF ALAN P. ZELICOFF, M.D.

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(updated 12/7/08)

### EDUCATION

Princeton University, Princeton, NJ, 1971 – 1975

- A.B. Physics
- Senior Thesis: "Computer Modeling of Drug Interactions"
- Junior Thesis: "Prediction of Core Temperatures in the Tokomak"
- Special Concentration: Russian Studies/Soviet Politics

M.D., University of Pittsburgh School of Medicine, 1975 – 1979

Internal Medicine Residency, University of New Mexico (UNM) Hospitals, 1979 – 1982

Post-Graduate Fellowship, Clinical Rheumatology, UNM, 1982 – 1983

Graduate school physics core curriculum, UNM, 1989

### AWARDS

Community Service Award, Navajo Nation, 1977

Upjohn Prize in Community Service, Univ. of Pittsburgh, 1979

Senior Medical Undergraduate Prize, Univ. of Pittsburgh, 1979

House Staff Best Intern Award, UNM, 1979

House Staff Teaching Award, UNM, 1981

Sandia Award for Excellence, 1992 and 1993

Sandia Employee Achievement Award, 1995

Sandia Meritorious Achievement Award, 1995

Department of Defense Award for Excellence, 1996

Sandia Employee Achievement Award, 1997

Sandia Meritorious Achievement Award, 1998, 2001, 2002

Promotion to Senior Scientist, Sandia National Laboratories, October, 1998

### LANGUAGES AND OTHER SKILLS

Russian

Computer programming in most major computer languages

### PROFESSIONAL APPOINTMENTS

Tarrant County Texas, Advisory Committee on Syndromic Surveillance, 2005

Member, Biological Assessment Team, Chaired by former Navy Secretary  
Richard Danzig, 2002 – 2004

White House Office of Science and Technology Policy Panel on Bioterrorism,  
May 1998 – 2001

Member, U.S. Delegation to the Biological Weapons Convention, 1991 – 2000

Technical Advisor, Office of the Secretary of Defense, Multilateral Negotiation  
and Policy, 1991 – 2003

Member, Planning Board, Presbyterian Hospital Board of Directors, 1988 – 1989

Member, Board of Directors, Health Plus of NM, 1987 – 1989

Medical Director, Chemical Dependency Unit, Presbyterian Hospital,  
Albuquerque, NM, 1985 – 1986  
Indian Health Service (U.S. Public Health Service) as a medical student at  
Crownpoint, NM and Gallup, NM Indian Health Service Hospitals

## PROFESSIONAL EXPERIENCE

Web site: <http://www.zelicoff.com>

Alan Zelicoff is a physician (board certified in internal medicine 1992, clinical fellowship in rheumatology, 1983) and physicist (A.B., Princeton, 1975), who has had a varied career including clinical practice, teaching, and operations research. In the latter roles, he was Senior Scientist in the Center for National Security and Arms Control at Sandia National Laboratories from 1989 – 2003. Dr. Zelicoff's interests include risk and hazard analysis in hospital systems and office-based practice, and in technologies for improving the responsiveness of public health offices and countering biological weapons terrorism. Dr. Zelicoff has traveled extensively in countries of the former Soviet Union and has led joint research projects in epidemiology of infectious disease, while establishing Internet access at Russian and Kazak biological laboratories. He is the author of numerous text book chapters and articles in these subjects, and is a frequent contributor to Op-Ed pages in the Washington Post and other newspapers.

Dr. Zelicoff's latest book is: *Microbe: Are we Ready for the Next Plague?* published by AMACOM Books and scheduled for release in June 2005.

### **ARES Corporation (August 2003 – Present)**

*Senior Scientific Consultant, Albuquerque, NM*

### **St. Louis University Institute for Biosecurity (2003 – Present)**

*Adjunct Professor of Public Health*

### **University of New Mexico School of Medicine (1999 – Present)**

*Adjunct Professor of Medicine*

### **Medical Legal-Review of New Mexico (Established 1984)**

*Consultant and President*

### **Sandia National Laboratories, Center for Arms Control and National Security (1989 – 2003)**

*Senior Scientist (1998 – 2003)*

### **Internal Medicine Associates Albuquerque (now Southwest Medical Associates) (1983 – 1992)**

*Physician in Private Practice, Internal Medicine and Rheumatology*

## PUBLICATIONS

Zelicoff, AP., Simpson, GS, Ward, T and Raigan, M. "Clinician-based real-time syndromic disease surveillance: Practical experience in an epidemiologically complicated environment". *Emerging Infectious Diseases Journal* (submitted)

Zelicoff, A.P. "An epidemiological analysis of the 1971 smallpox outbreak in Aralsk, Kazakhstan," *Critical Reviews in Microbiology*; 2003; v.29, no.2, p.97-108.

Zelicoff, A.P. "Screening for cancer with computed tomography: History repeats itself in another manifestation of "executive physical examinations"." *British Medical Journal* 2003; 326: 1458.

Zelicoff, A.P., Pezzullo, J.C., "Thyroid Cancer 15 Years After Chernobyl," *Lancet*; Jun 1 2002; V.359, No.9321, P.1946-1947.

Zelicoff, A.P. "Enthusiasm Ran Ahead of Discoveries Still to Come," *Nature*; Sep 13 2001; V.413, No.6852, P.108-108.

Zelicoff, A., Brillman, J., Forslund, D.W., George, J.E., Zink, S., Koenig, S., Staab, T., Simpson, G., Umland, E., Bersell, K. "The Rapid Syndrome Validation Project," *Proceedings AMIA Symposium 2001*; 771-5.

Zelicoff, A.P. "An Impractical Protocol," *Arms Control Today*, May 2001.

Zelicoff, A.P. "Bioweapons Research," *Scientific American*; Jul 1999; V.281, No.1, P.8-+.

Zelicoff, A.P. "More on the Most Terrible of the Ministers of Death," *Annals of Internal Medicine*; May 1 1998; V.128, No.9, P.784-785.

Kadlec, R.F.; Zelicoff, A.P. "Physicians and Biological Warfare Agents – Reply," *JAMA-Journal of the American Medical Association*; Jan 28 1998; V.279, No.4, P.273-274.

Zelicoff, A.P. "Preparing for Biological Terrorism: First, Do No Harm," *Politics and the Life Sciences*; Sep 1996; V.15, No.2, P.235-236.

Kadlec, R.P.; Zelicoff, A.P.; Vrtis, A.M. "Biological Weapons Control – Prospects and Implications for the Future," *JAMA-Journal of the American Medical Association*; Aug 6 1997; V.278, No.5, P.351-356.

Zelicoff, A.P. "The Biological Weapons Convention – What Is the Role of Sample Collection in a Legally-Binding Regime?" *Politics and the Life Sciences*; Feb 1995; V.14, No.1, P.79-84.

Zelicoff, A.P. "The Dual-Use Nature of Biotechnology: Some Examples from Medical Therapeutics," *Lawrence Livermore National Laboratory, The Director's Series on Proliferation*. (UCRLR-114070-4), 23 May 1994, pp. 79-84.

Zelicoff, A.P. "The Health-Care Industry – Where Is It Taking Us?" *New England Journal of Medicine*; Jan 16 1992; V.326, No.3, P.206-206.

Zelicoff, A.P. "Myocardial Infarction Prediction by Artificial Neural Networks," *Annals of Internal Medicine*; Apr 15 1992; V.116, No.8, P.701-701.

Zelicoff, A.P. "Internal Medicine – No Longer a Primary Care Specialty?" *Archives of Internal Medicine*; 1991; V.151, No.3, P.616-616.

Zelicoff, A.P. "The Care of Patients with Aids – Don't Ignore the Family Practitioner," *JAMA-Journal of the American Medical Association*; 1989; V.261, No.4, P.556-556.

Zelicoff, A.P. "Soviet Medicine," *Western Journal of Medicine*; 1987; V.147, No.5, P.598-599.

Zelicoff, A.P. "Elderly Patients With Dementia," *Western Journal of Medicine* ; 1987; V.146, No.1, P.101-102.

Zelicoff, A.P. "Is It Still A Privilege To Be A Doctor?" *New England Journal of Medicine*; 1986; V.315, No.17, P.1097-1097.

Jeffery, W.H.; Zelicoff, A.P.; Hardy, W.R. "Acquired Methemoglobinemia and Hemolytic Anemia After Usual Doses of Phenazopyridine," *Drug Intelligence & Clinical Pharmacy*; 1982; V.16, No.2, P.157-159.

Atalay, BI, Mann, A ; Zelicoff, A  
Perturbation-Theory For Projected States In Pairing Force Model .3. Problem Of Spurious States. *Nuclear Physics A*; 1978; V.295, No.2, P.204-210

Raizada, V ; Zelicoff, P ; Bankhurst, AD ; Cohen, M  
Unexpected Cardiac Lesions In Clinically Asymptomatic Patients With Systemic Lupus Erythmatosus Detected By Two-Dimensional Echocardiography, *Clinical Research*; 1981; V.29, No.1, P.A18-A18

[Note added: Classified publications produced from 1989 – 2003 are not listed here as it is prohibited to do so by law]

## Books

*More Harm than good*(AMACOM books). Publication date: Jan. 2008. [http://www.amazon.com/More-Harm-Than-Good-Treatments/dp/0814400272/ref=pd\_bbs\_sr\_1?ie=UTF8&s=books&qid=1196649903&sr=8-1]

*Microbe: Are We Ready for the Next Plague?* (co-author: Michael Bellomo). AMACOM Books, release date, June 2005. Currently available for per order on amazon.com [http://www.amazon.com/exec/obidos/tg/detail/-/0814408656/qid=1114920474/sr=8-1/ref=sr\\_8\\_xs\\_ap\\_i1\\_xgl14/002-0250562-7558436?v=glance&s=books&n=507846](http://www.amazon.com/exec/obidos/tg/detail/-/0814408656/qid=1114920474/sr=8-1/ref=sr_8_xs_ap_i1_xgl14/002-0250562-7558436?v=glance&s=books&n=507846).

*Saving Energy without Derision* (September 2005; version 2 October 2006 ). Published in electronic format on the web at: <http://www.zelicoff.com/SMLR/SavingEnergy.html>

## Major Manucripts

**"Avian Influenza", Feb. 2007.** Prepared for the World Bank and accessible at: <http://www.zelicoff.com/InfluenzaWhitePaperv2a.pdf>

**"The Birds (and avian influenza)".** The Policy Monitor, Medley Policy Advisors. Medley Global Advisors, Page 8-9. FEBRUARY 9, 2007

### **Book Chapters**

"Severe Acute Respiratory Syndrome (SARS): Lessons for Arms Control and International Public Health," in *Non-Proliferation after the Iraq War*. Sokolski, H. (ed). U.S. Army War College 2003 (in press).

"Syndrome-Based Disease Surveillance: Applications to Counter-terrorism," in *Encyclopedia of Bioterrorism Defense*. Edited by Richard F. Pilch and Raymond A. Zilinskas. Wiley, Inc., 2003.

Foreword for *Bio-warrior*. Igor V. Domarjdski and Wendy Orent. Prometheus Books, 2003.

"Implications of the Biotechnology Revolution for Weapons Development and Arms Control," in *Biological Warfare: Modern Offense and Defense*. Zilinskas, R. (ed). Nov. 1999.

"Biological Weapons Control: Prospects and Implications for the Future," with R.P. Kadlec and A.M. Vrtis, in *Biological Weapons: Limiting the Threat*. Lederberg, J. (ed). MIT Press, May 1999.

### **Op-Eds: Newspapers**

"Sandia Laboratories Discovered New Ways to Make Bad Calls". Albuquerque Journal. November 1, 2007. Page A13.

"Richardson's Rickey Resume". Albuquerque Tribune, Insight and Opinion. Page D1. June 27, 2007.

"Managing the management at the National Laboratories. Albuquerque Tribune. Thursday, April 5, 2007

Commentary: If scientists won't speak out, politicians go unchecked. *Albuquerque Tribune*, November 14, 2006

Commentary: DOE Quietly Backs Away from Voodoo of Polygraphs. *Albuquerque Journal*, October 20, 2006

Commentary: Tobacco Lobby and Gov. Richardson's Health policy agenda for children. *Albuquerque Tribune*, June 29, 2006

Commentary: Conserving energy should start with the city and state's labs. *Albuquerque Tribune*, May 3, 2006

December 29, 2005  
Albuquerque Journal

“Rooftop Photo Cells Make Good Financial Sense”

“Remote Threat: Fears are not justified for Washington’s preparations against the spread of avian influenza to human”. *Albuquerque Tribune*, Nov. 15 and 16, 2005 (Two-part editorial)

“Time for Action: Why count on rebates or other short-term energy fixes when you can take simple money-saving steps of your own?” *Albuquerque Tribune*, October 13, 2005

“Residential Solar Cells Could Ease Power Woes,” *Albuquerque Journal*, August 19, 2005.

“Unfair Treatment: Physician-Owned Specialty Hospitals Pose a Threat to Affordable Health Care in America,” *Albuquerque Tribune* (Insight and Commentary, front page), May 31, 2005.

“A Generator on Every House,” *Albuquerque Journal*, August 22, 2004.

“Detroit Should Plug in to the Future,” *Albuquerque Journal*, March 18, 2004.

“Promoting Renewal Energy without Government Tax Credits,” *Albuquerque Tribune*, February 19, 2004.

“Lessons Learned in SARS Outbreak Go Unheeded,” *Albuquerque Journal*, November 24, 2003.

“Truth Tests Are Flawed, So Cut ‘Em Out, DOE,” *Albuquerque Tribune* (Staff Editorial), September 15, 2003, *Albuquerque Journal*, March 11, 2004.

“Vaccine’s Benefits Outweigh Risks [re: smallpox vaccination],” *Albuquerque Journal*, February 9, 2003.

“DOE Needs to Stand Up to Congress on Lie Tests,” *Albuquerque Tribune* (Staff Editorial), June 22, 2001.

“Polygraphs and the National Labs: Dangerous Ruse Undermines National Security,” *Skeptical Inquirer*, July-August 2001 Issue.

“Polygraphs: Congressional Hypocrisy,” *Washington Post*, August 9, 2002.

“A Lie Detector Failure,” *Albuquerque Journal* (Staff Editorial), October 19, 2002.

“Using Less Energy Is Smart – and Easy,” *Albuquerque Journal*, February 9, 2003.

“The Russian Strain (quoted extensively),” *Wall Street Journal*, pg. A10, March 27, 2003.

“To Vaccinate or Not,” *Albuquerque Tribune* April 14, 2003.

“We Must Fight Lie That Labs Need Polygraphs,” *Albuquerque Tribune* (Staff), April 17, 2003.

“Polygraphs: Worse Than Worthless,” *Washington Post*, May 27, 2003.

“Be Realistic about Biological Weapons,” *Washington Post*, p. A20. January 8, 1998.

## CONGRESSIONAL TESTIMONY

"Status and Implications Biological Weapons Convention," United States House of Representatives, Committee on Government Reform, Subcommittee on National Security, Veterans Affairs, and International Relations, Christopher Shays, Chairman, June 5, 2001.

"Bioterrorism: What To Do, What Not To Do," United States House of Representatives, Committee on Energy and Commerce, Subcommittee on Oversight and Investigations, W.J. "Billy" Tauzin, Chairman, November 1, 2001.

"Reducing the Threat of Chemical and Biological Weapons," Senate Foreign Relations Committee Hearing, Sen. Joseph Biden, Chairman, March 19, 2002.

"U.S. Nonproliferation Policy After Iraq," House Committee on International Affairs, Rep. Henry Hyde, Chairman, June 4, 2003.

## OTHER TESTIMONY OR GOVERNMENT-RELATED PRESENTATIONS

National Resources Council Panel on the Validity of Polygraphs, Testimony before the Panel, January, 2002.

National Academy of Sciences, Committee on Immunization Policy, "Smallpox as a Bioweapon: Evidence for Open-Air Testing in the Soviet Union," June 2002.

## RECENT INVITED CONFERENCE PRESENTATIONS

Biological Science and Non-Proliferation. Sponsor: Los Alamos National Laboratory. December 3 – 5, Santa Fe, NM. Conference organizer: Annie Sobel, MD (asobel@sandia.gov).

"The Syndrome Reporting Information System (SYRIS): *CLINICIAN-DRIVEN reporting* (vs. all of the rest). Texas Department of Health Pandemic Preparedness Conference. August 13, 2007, Lubbock Texas.

Keynote speaker: National Pandemic Influenza Conference, Washington DC October 13, 2006. "What does the recent data say about recurrence of pandemic influenza in the new future".

Century Club of Santa Barbara and the Santa Barbara Council on Foreign Relations, Sept. 24, 2006. "Pandemic Influenza: Not a current threat".

Councils of Foreign Relations: Albuquerque (NM), Wichita KS), Indianapolis (IN), Kansas City (MI) (all in 2005-6): "One Flu out of Some Cuckoo's Head: Preparing for the next real pandemic"

Keynote speaker, Great Lakes Border Health Initiative Conference, August 24, 2006. "Disease Surveillance: Modern, proven methodologies".

Society of Business Editors and Writers, Minneapolis, Minnesota, May 2006. "Influenza Pandemic: Hysteria trumps Science".

Midwest Research Institute annual "Salute to Science" keynote address, March 8, 2006

“The Syndrome Reporting Information System” (SYRIS), Practical Experience”. Second Annual National Conference on Bioterrorism, Albuquerque NM, June 2005.

“Bioterrorism, Human Rights and Smallpox,” Wecht Institute of Law, 5th, Annual Conference on Law and Medicine. Duquesne University, Pittsburgh, PA, October 21, 2004.

NATO-Russia Committee on Disease Surveillance, Warsaw, Poland (December 2003), U.S. Delegate.

“The Syndrome Reporting Information System” (SYRIS), NATO Summit, Prague, Czech Republic (invited by Sec. Donald Rumsfeld), November 2002.

“The Rapid Syndrome Validation Program,” Federal Bureau of Investigation (FBI) terrorism conference, Albuquerque, NM, October 2002.

“This Ain’t your Grandad’s Smallpox: the Worst Biological Weapon,” New York City Syndrome Surveillance Conference, September 2002.

“The Rapid Syndrome Validation Program – A Tool for Public Health Surveillance,” National Counter-Terrorism and Law Enforcement Symposium.

“Understanding Bioterrorism Threats,” Albuquerque, NM, May 2002.

“Lessons from the 1971 Smallpox Outbreak in the Soviet Union,” The Gordon Conference, Santa Barbara, CA, March 2002.

### **Biographical Abstract**

Alan Zelicoff is a physician (board certified in Internal Medicine 1992, clinical fellowship in Rheumatology, 1983) and physicist (AB Princeton, 1975), who has had a varied career including clinical practice, teaching, and operations research. In the latter roles, he was Senior Scientist in the Center for National Security and Arms Control at Sandia National Laboratories from 1989 – 2003. Dr. Zelicoff's interests include risk and hazard analysis in hospital systems and office-based practice, and in technologies for improving the responsiveness of public health offices and countering biological weapons terrorism. Dr. Zelicoff has traveled extensively in countries of the former Soviet Union and has led joint research projects in epidemiology of infectious disease, while establishing Internet access at Russian and Kazak biological laboratories. The result of this activity is a real-time clinician-based disease surveillance and reporting system called the Syndrome Reporting Information System (SYRIS) which is now being used by public health officials responsible for monitoring the health of more than 1.25 million people in Texas and countless agricultural animals and wildlife as well.

Dr. Zelicoff's is the author of: "Microbe: Are we ready for the next Plague?" published by AMACOM Books. And his latest book is "More Harm than Good", a practical look at the reasons for costly medical practice in the United States. He is the author of numerous medical and public health text book chapters, and is a frequent contributor to Op-Ed pages in the Washington Post, Albuquerque Journal and other newspapers.

Web site: <http://www.zelicoff.com>